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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,859	03/05/2002	Kiyoshi Miyazaki	Q68747	8348

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EXAMINER

BECK, ALEXANDER S

ART UNIT PAPER NUMBER

2675

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/087,859

Applicant(s)

MIYAZAKI, KIYOSHI

Examiner

Alexander S. Beck

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– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-15 is/are allowed.
- 6) ☒ Claim(s) 16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Acknowledgement is made of the amendment filed by the Applicant on 10/27/2004, in which: Claims 1-13 were amended; the rejections of Claims 1-13 were traversed; and new Claims 14-16 were added. **Claims 1-16** are currently pending in U.S. Application Serial No. 10/087,859, and an Office Action on the merits follows.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. **Claim 16** is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to independent **Claim 16**, Applicant indicates in the most recent correspondence that support for newly added independent Claim 16 can be found, for example, in cited figures 5,7,9,11 and 13 of the instant application (*see pg 9*). The limitations recite, "...a first power source terminal; a second power source terminal; a first amplifier having its input coupled to said first and second power source terminals..." (*ln 2-5*). However, nowhere in Figures 5,7,9,11 or 13 is there any support for a power supply circuit of this structure. All amplifiers in the cited figures are only shown to have one input: Fig. 5 (**A3&V54, A4&V55**); Fig. 7 (**A1&V72, A2&V73**); Fig. 9 (**A4&V95**); Fig. 11(**A3&V114, A4&V115**); Fig. 13 (**A4&V135**). The limitations regarding the connections between "a first capacitor", "a first switch" and "a second switch" with the above

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structure are also confusing, as the structure is not supported in any of the cited figures.

Independent Claim 16 is unclear and indefinite for the reasons indicated above.

Allowable Subject Matter

4. **Claims 1-15** are allowed.

5. The following is an examiner's statement of reasons for allowance:

As to independent Claims 1,4,6 and 14, the prior art (see PTO-892 attached with this correspondence, as well as previous PTO-892) is made of record as teaching power supply circuits through the use of resistive division and interconnections between amplifiers and capacitors.

However, none of the cited prior art teaches or suggests an amplifier having a voltage follower configuration; at least one capacitor connected to the amplifier, the at least one capacitor and amplifier generating a first voltage level included in a first group of the voltage levels; and a switch circuit controlled at a predetermined timing to switch the at least one capacitor to generate a second voltage level included in the second group of voltage levels with a discharge voltage of the at least one capacitor and a peak voltage level, as presently claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Response to Arguments

6. Applicant's arguments, see pg 9-18, filed 10/27/2004, with respect to Claims 1-13 have been fully considered and are persuasive. The rejections of Claims 1-13 have been withdrawn in light of the Applicant's amendments to overcome the rejections.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yanagi et al. (US 5,929,847 A) ... FIG. 24,34

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander S. Beck whose telephone number is (571) 272-7765. The examiner can normally be reached on M-F, 8AM-5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

asb



SUMATI LEFKOWITZ
SUPERVISORY PATENT EXAMINER